

512

FIG. 2

516

DOES THE SENT DESTINATION ADDRESS AND THE SENT FIRST PORT IDENTIFIER MATCH A REFERENCE DESTINATION ADDRESS AND A REFERENCE FIRST PORT IDENTIFIER, RESIDENT IN THE FIRST FIREWALL?

, YES

518

LNO

PASS THE DATA MESSAGE THROUGH THE FIRST FIREWALL.

BLOCK THE DATA MESSAGE FROM TRAVERSING THE FIRST FIREWALL. ENTER DATA ON THE DATA MESSAGE INTO A SUSPECT ACTIVITY LOG.

- 520

522

DOES THE SENT SECOND PORT IDENTIFIER MATCH A REFERENCE SECOND PORT IDENTIFIER, RESIDENT IN THE SECOND FIREWALL?

> YES 524

523

PASS THE DATA MESSAGE THROUGH THE SECOND FIREWALL.

BLOCK THE DATA MESSAGE FROM TRAVERSING THE SECOND FIREWALL. ENTER DATA ON THE DATA MESSAGE INTO A SUSPECT **ACTIVITY LOG.**

528

RECEIVE THE DATA MESSAGE

AT

THE FIRST DATA PROCESSING SYSTEM FOR ANY SUBSEQUENT ACTION THAT IS NECESSARY OR APROPRIATE.

Lī

13

RECEIVE THE DATA

FIG. 3

510

PREPARE A DATA MESSAGE ASSOCIATED WITH (1) A SOURCE ADDRESS OF THE SECOND DATA PROCESSING SYSTEM OR A SERVER OF THE SECOND ENTITY, AND (2) A DESTINATION ADDRESS OF A FIRST DATA PROCESSING SYSTEM OR A SERVER OF THE FIRST ENTITY. 530 ANNOTATE THE DATA MESSAGE WITH A FIRST PORT IDENTIFIER ASSOCIATED WITH A FIRST FIREWALL. 532 SEND THE DATA MESSAGE AND THE ASSOCIATED FIRST PORT IDENTIFIER. DESTINATION ADDRESS, AND SOURCE ADDRESS FROM THE SECOND COMMUNICATIONS SYSTEM TO THE FIRST COMMUNICATIONS SYSTEM VIA THE EXTERNAL COMMUNICATIONS NETWORK. 516 DOES THE SENT DESTINATION ADDRESS AND THE SENT FIRST PORT IDENTIFIER MATCH A REFERENCE DESTINATION ADDRESS AND A REFERENCE FIRST PORT IDENTIFIER, RESIDENT IN THE FIRST FIREWALL? YES PASS THE DATA MESSAGE THROUGH 520 **BLOCK THE DATA MESSAGE FROM** THE FIRST FIREWALL. TRAVERSING THE FIRST FIREWALL. ENTER DATA ON THE DATA MESSAGE INTO A SUSPECT ACTIVITY LOG. 534 DOES THE SENT SOURCE ADDRESS MATCH A REFERENCE SOURCE ADDRESS, RESIDENT IN THE SECOND FIREWALL? 526 524 NO YES PASS THE DATA MESSAGE THROUGH BLOCK THE DATA MESSAGE FROM THE SECOND FIREWALL. TRAVERSING THE SECOND FIREWALL. ENTER DATA ON THE DATA MESSAGE INTO A SUSPECT ACTIVITY LOG. 528

AT

SYSTEM FOR ANY SUBSEQUENT ACTION THAT IS NECESSARY OR APROPRIATE.

: THE FIRST DATA PROCESSING

MESSAGE

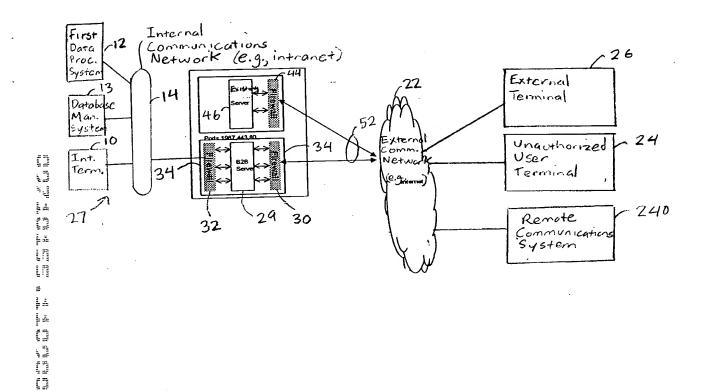


FIG. 4

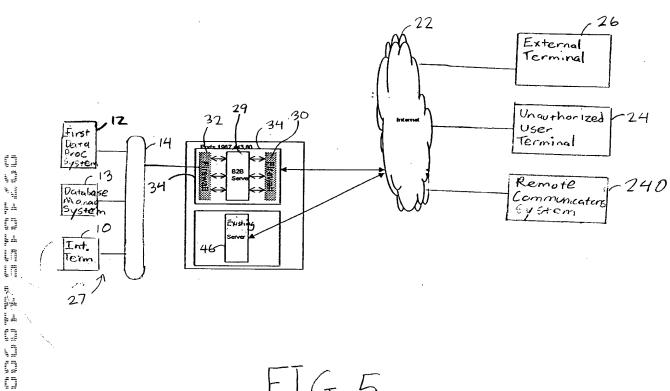


FIG.5

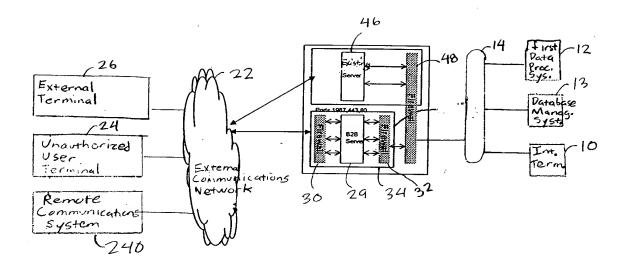


FIG. 6

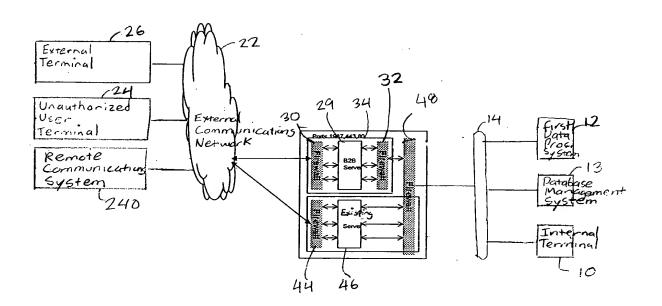


FIG. 7